```
=> d his

     (FILE 'HOME' ENTERED AT 21:06:04 ON 13 DEC 2003)

     FILE 'REGISTRY' ENTERED AT 21:06:09 ON 13 DEC 2003
L1             SCREEN 1839
L2             SCREEN 2016 OR  2039 OR  2040 OR  2045 OR  2047
L3             STRUCTURE UPLOADED
L4             QUE L3 AND L1 NOT L2
L5           3 S L4 SSS SAM
L6          31 S L4 SSS FUL

     FILE 'CAPLUS' ENTERED AT 21:07:14 ON 13 DEC 2003
L7           9 S L6

     FILE 'CAOLD' ENTERED AT 21:07:49 ON 13 DEC 2003

=> s 16
L8           0 L6

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    0.40      190.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                    0.00       -5.86

STN INTERNATIONAL LOGOFF AT 21:08:02 ON 13 DEC 2003
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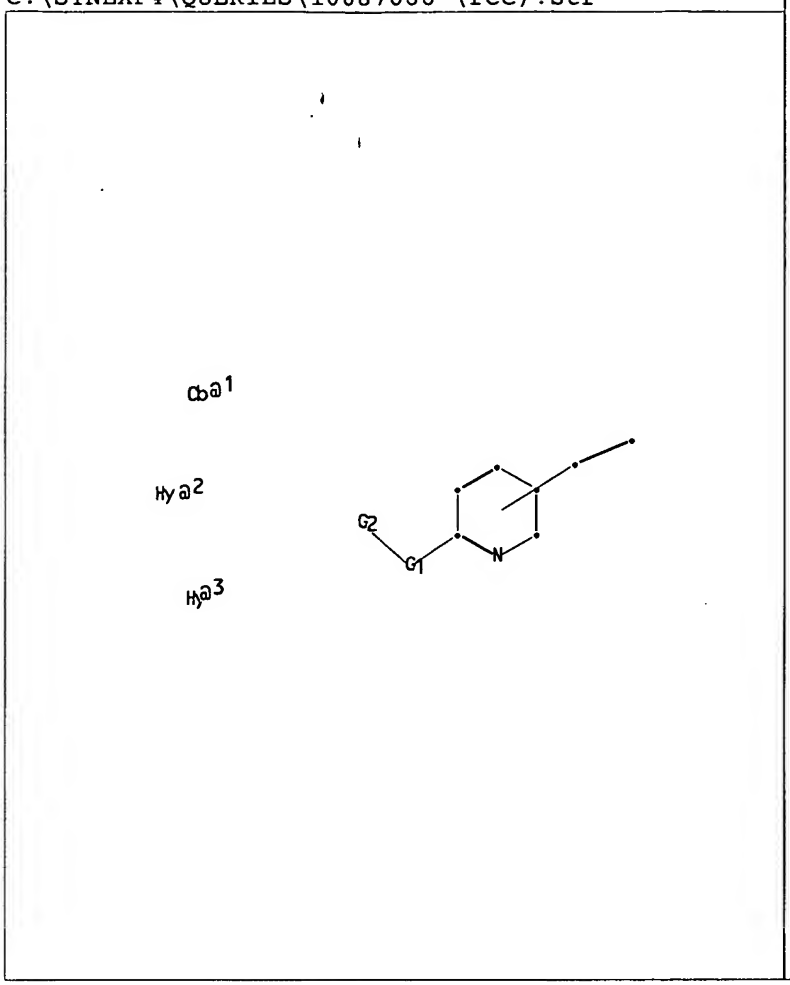
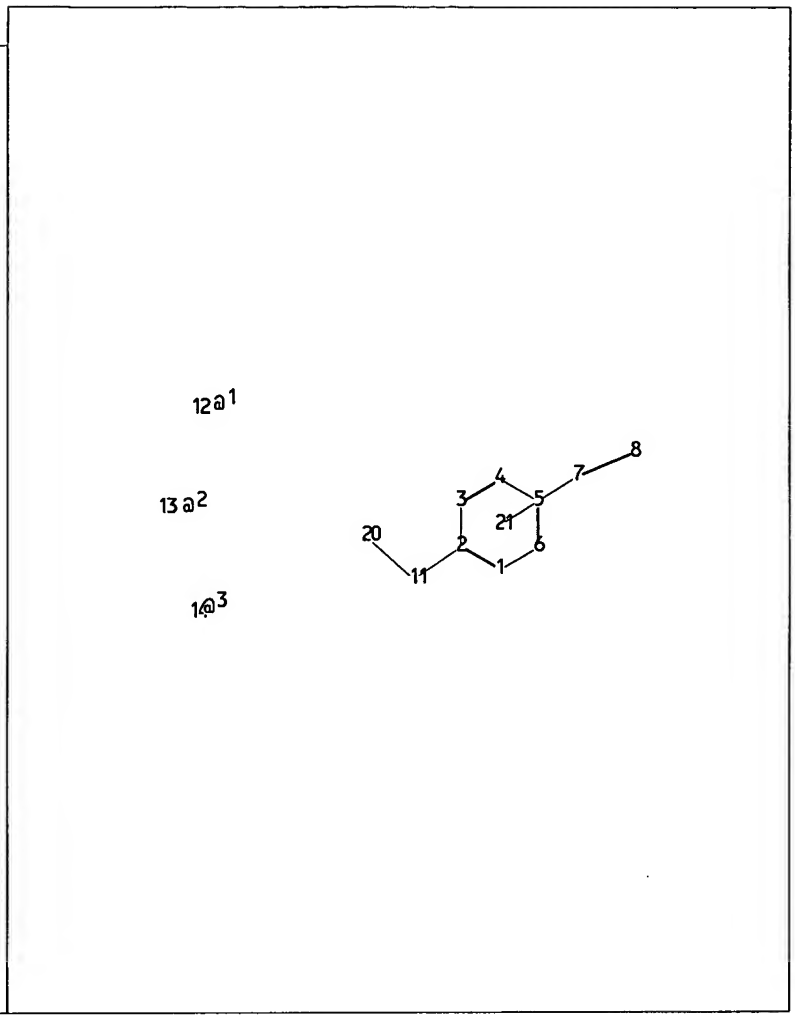
C:\STNEXP4\QUERIES\10087066 (rce).str





chain nodes :
7 8 11 12 13 14 20
ring nodes :
1 2 3 4 5 6
chain bonds :
2-11 7-8 11-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
2-11 11-20
exact bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S

G2:[*1],[*2],[*3]

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 11:CLASS 12:Atom
13:Atom 14:Atom 20:CLASS 21:CLASS
Generic attributes :
12:
Saturation : Unsaturated
13:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

```
    14:
    Saturation              : Unsaturated
    Number of Carbon Atoms  : less than 7
    Number of Hetero Atoms  : less than 2
    Type of Ring System     : Monocyclic

Element Count :
    Node 13: Limited
        C,C1-5
        N,N1

    Node 14: Limited
        C,C4
        S,S1
        O,O0
        N,N0
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```
=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end


=> screen 1839

L1    SCREEN CREATED

=> screen 2016 OR  2039 OR  2040 OR  2045 OR  2047

L2    SCREEN CREATED

=>
Uploading C:\STNEXP4\QUERIES\10087066 (rce).str

L3      STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4   QUE L3 AND L1 NOT L2

=> d 14
L4 HAS NO ANSWERS
L1              SCR 1839
L2              SCR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L3              STR

   Cb 1

Hy 2
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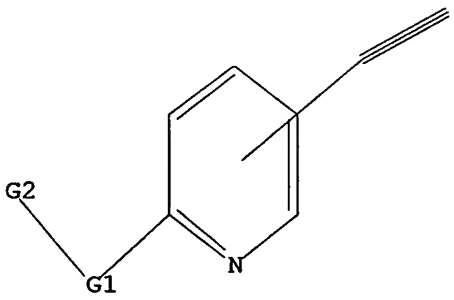


```
   Hy 3
G1 O,S
G2 [@1],[@2],[@3]


Structure attributes must be viewed using STN Express query preparation.
L4              QUE  L3 AND L1 NOT L2


=> s 14 sss sam
SAMPLE SEARCH INITIATED 21:06:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    159 TO ITERATE
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100.0% PROCESSED     159 ITERATIONS                                3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         2424 TO     3936
PROJECTED ANSWERS:               3 TO      163

L5             3 SEA SSS SAM L3 AND L1 NOT L2

=> s l4 sss ful
FULL SEARCH INITIATED 21:06:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3169 TO ITERATE

100.0% PROCESSED    3169 ITERATIONS                               31 ANSWERS
SEARCH TIME: 00.00.01

L6            31 SEA SSS FUL L3 AND L1 NOT L2

=> s l6
L7             9 L6

=> d l7 1-9 bib,ab,hitstr
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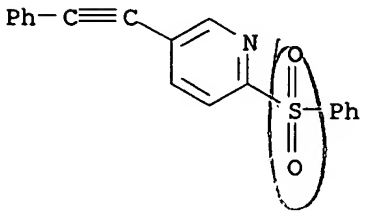
L7 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:434561 CAPLUS
DN 139:22210
TI Preparation of pyrazolopyridine derivatives as adenosine antagonists
IN Tanaka, Akira; Minagawa, Masatoshi; Akahane, Atsushi
PA Fujisawa Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003045950	A1	20030605	WO 2002-JP12381	20021127

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI AU 2001-9163 A 20011129
OS MARPAT 139:22210
AB Pyrazolopyridine compds. of formula I [R1 = H, alkyl, cycloalkyl; R2 = H, (substituted) OH, acyl, (substituted) amino; R3 = H, halo] are prepd. The pyrazolopyridine compds. and salts thereof of are adenosine antagonists and are useful for the prevention and/or treatment of depression, dementia (e.g. Alzheimer's disease, cerebrovascular dementia, dementia accompanying Parkinson's disease, etc.), Parkinson's disease, anxiety, pain, cerebrovascular disease (e.g. stroke, etc.), heart failure and the like. Thus, II was prepd. and showed adenosine antagonist activity and anticatalepsy activity.
IT **478273-15-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of pyrazolopyridine derivs. as adenosine antagonists)
RN 478273-15-3 CAPLUS
CN Pyridine, 5-(phenylethynyl)-2-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



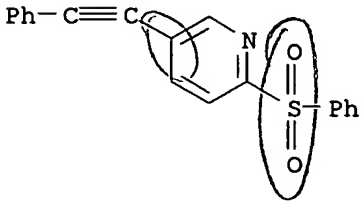
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:964360 CAPLUS
DN 138:24732
TI Preparation of pyrazolopyrazines as adenosine antagonists
IN Akahane, Atsushi; Tanaka, Akira
PA Fujisawa Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

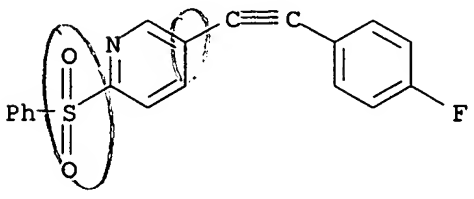
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002100864	A1	20021219	WO 2002-JP5453	20020603

W: JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

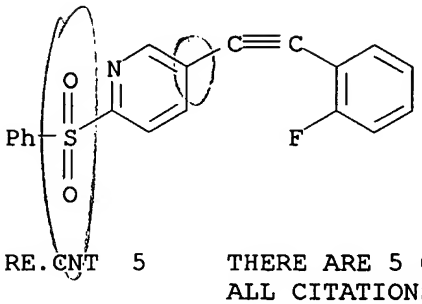
PRAI AU 2001-5486 A 20010606
OS MARPAT 138:24732
AB Title compds. I [R1 = H, alkyl, cycloalkyl, etc.; R2 = H, halo] and their pharmaceutically acceptable salts were prepd. For example, hydrolysis of Me ether II, e.g., prepd. from 2,5-dibromopyridine in 5-steps, afforded pyrazolopyrazine III. In human A1 receptor binding assays, 3-specific examples of compds. I exhibited Ki values ranging from 0.18-0.36 nM, e.g., Ki of pyrazolopyrazine III = 0.18 nM. Compds. I are claimed useful for the treatment of depression, dementia, anxiety, etc.
IT **478273-15-3P**, 5-(Phenylethynyl)-2-(phenylsulfonyl)pyridine **478273-18-6P**, 5-[(4-Fluorophenyl)ethynyl]-2-(phenylsulfonyl)pyridine **478273-21-1P**, 5-[(2-Fluorophenyl)ethynyl]-2-(phenylsulfonyl)pyridine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of pyrazolopyrazines as adenosine antagonists)
RN 478273-15-3 CAPLUS
CN Pyridine, 5-(phenylethynyl)-2-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 478273-18-6 CAPLUS
CN Pyridine, 5-[(4-fluorophenyl)ethynyl]-2-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 478273-21-1 CAPLUS
CN Pyridine, 5-[(2-fluorophenyl)ethynyl]-2-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:693101 CAPLUS
DN 137:212312
TI Herbicidal 2-alkynyl-pyri(mi)dines
IN Maier, Thomas
PA BASF Aktiengesellschaft, Germany
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA English

Appl. EP.

FAN.CNT 1

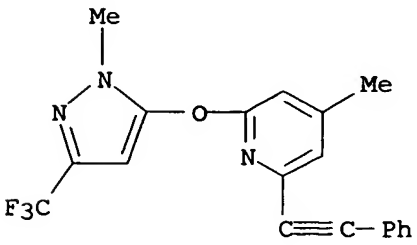
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1238586	A1	20020911	EP 2002-3518	20020215
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2003073581	A1	20030417	US 2002-87066	20020301 ←
	JP 2002322006	A2	20021108	JP 2002-59386	20020305
PRAI	US 2001-274755P	P	20010309		

OS MARPAT 137:212312

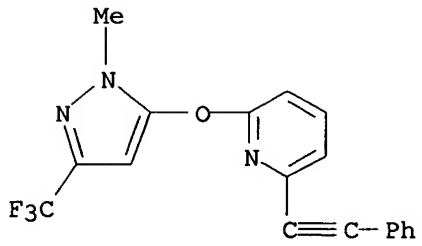
AB A method of combating undesired plant growth at a locus comprises application to the locus of an effective amt. of at least one compd. I (R1 = (un)substituted alkyl, alkenyl, alkynyl, alkoxy,alkoxyalkyl, alkoxyalkoxy, haloalkyl, haloalkoxy, cyano, nitro, SF5, etc.; R3 = H, formyl, (un)substituted alkyl, alkenyl, trihydrocarbylsilyl, aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group;A = (un)substituted aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group, or (un)substituted thienyl; Z = O, S or single bond; X = N or CR2 (R2 = H, or R2 = R1); m = 0, 1, or 2) and the agronomically acceptable salts or N-oxides thereof, or herbicidal compns. contg. such compds. as active ingredients.

IT **457057-31-7 457057-33-9 457057-34-0**
457057-35-1 457057-36-2 457057-37-3
457057-40-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicide)

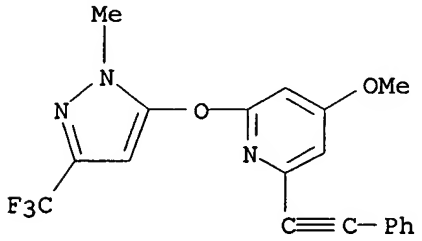
RN 457057-31-7 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



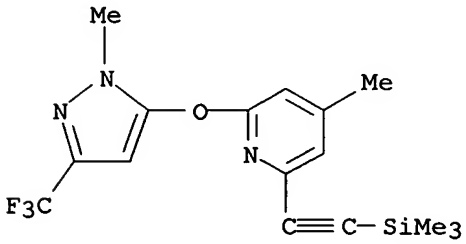
RN 457057-33-9 CAPLUS
CN Pyridine, 2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



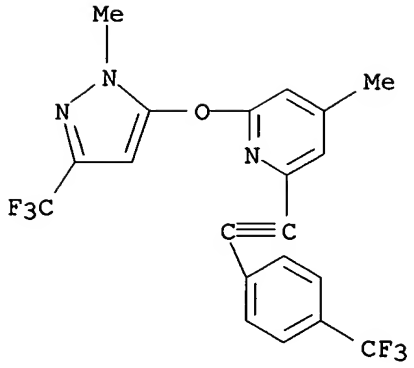
RN 457057-34-0 CAPLUS
CN Pyridine, 4-methoxy-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



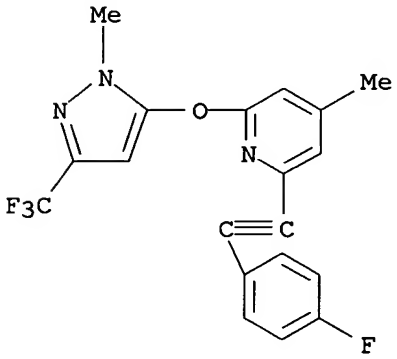
RN 457057-35-1 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



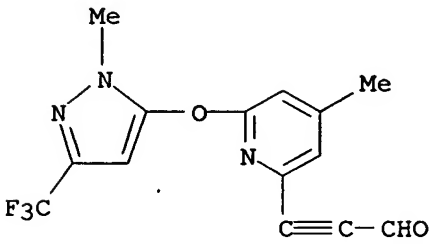
RN 457057-36-2 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[[4-(trifluoromethyl)phenyl]ethynyl]- (9CI) (CA INDEX NAME)



RN 457057-37-3 CAPLUS
CN Pyridine, 2-[(4-fluorophenyl)ethynyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

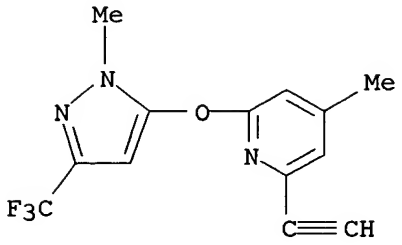


RN 457057-40-8 CAPLUS
CN 2-Propynal, 3-[4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)

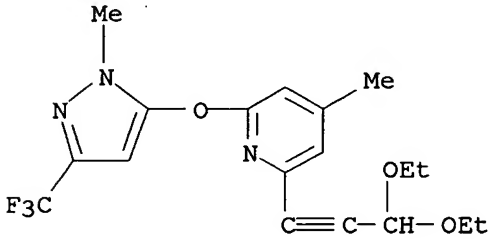


IT **457057-38-4 457057-39-5**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(herbicide)
RN 457057-38-4 CAPLUS
CN Pyridine, 2-ethynyl-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-

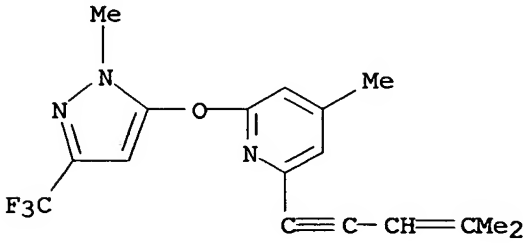
yl]oxy]- (9CI) (CA INDEX NAME)



RN 457057-39-5 CAPLUS
CN Pyridine, 2-(3,3-diethoxy-1-propynyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



IT **457057-41-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. as herbicide)
RN 457057-41-9 CAPLUS
CN Pyridine, 4-methyl-2-(4-methyl-3-penten-1-ynyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

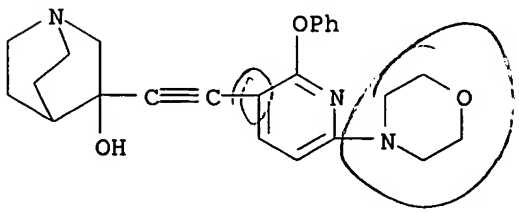


RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:247333 CAPLUS
DN 134:266475
TI Preparation of quinuclidine compounds and drugs containing the same as the active ingredient of squalene synthase inhibitors
IN Okada, Toshimi; Kurusu, Nobuyuki; Tanaka, Keigo; Miyazaki, Kazuki; Shinmyo, Daisuke; Sugumi, Hiroyuki; Ikuta, Hironori; Hiyoshi, Hironobu; Saeki, Takao; Yanagimachi, Mamoru; Ito, Masashi
PA Eisai Co., Ltd., Japan; et al.
SO PCT Int. Appl., 267 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001023383	A1	20010405	WO 2000-JP6665	20000927
	W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 2000074464	A5	20010430	AU 2000-74464	20000927
	EP 1217001	A1	20020626	EP 2000-962889	20000927
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	BR 2000014331	A	20030610	BR 2000-14331	20000927
	ZA 2002002034	A	20030312	ZA 2002-2034	20020312
	US 6599917	B1	20030729	US 2002-88554	20020319
	NO 2002001528	A	20020528	NO 2002-1528	20020326
PRAI	JP 1999-273905	A	19990928		
	JP 2000-179352	A	20000615		
	WO 2000-JP6665	W	20000927		

OS MARPAT 134:266475
AB Title compds. [I; wherein R1 is hydrogen or hydroxyl; HAr is an optionally substituted arom. heterocycle; Ar is an optionally substituted arom. ring; W is a CH2CH2 group which may be substituted, a CH:CH group which may be substituted, CC, NHCO, or the like; X is a single bond, optionally substituted C1-6 alkylene, Q ;wherein Q is oxygen, sulfur, CO, N(R2) ; wherein R2 is C1-6 alkyl or C1-6 alkoxy, NHCO, or the like], salts thereof, or hydrates of both, are prepd. and are useful as excellent squalene synthase inhibitors. Thus, the title compd. II was prepd. and tested.
IT **332132-06-6P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of quinuclidine compds. and drugs contg. the same as active ingredient of squalene synthase inhibitors)
RN 332132-06-6 CAPLUS
CN 1-Azabicyclo[2.2.2]octan-3-ol, 3-[[6-(4-morpholinyl)-2-phenoxy-3-pyridinyl]ethynyl]- (9CI) (CA INDEX NAME)



L7 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:553541 CAPLUS
DN 133:163952
TI Preparation of N2-phenylamidines as fungicides
IN Charles, Mark David; Franke, Wilfried; Green, David Eric; Hough, Thomas Lawley; Mitchell, Dale Robert; Simpson, Donald James; Atherall, John Frederick
PA Hoechst Schering Agrevo G.m.b.H., Germany
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000046184	A1	20000810	WO 2000-GB345	20000204
	W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2360943	AA	20000810	CA 2000-2360943	20000204
	EP 1150944	A1	20011107	EP 2000-901791	20000204
	EP 1150944	B1	20030820		
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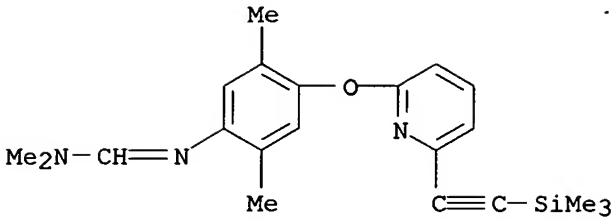
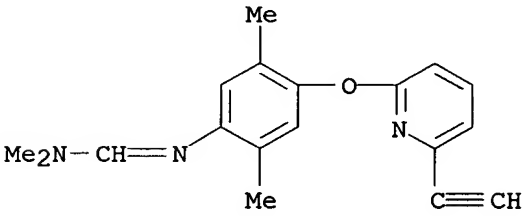
	BR 2000009314	A	20020213	BR 2000-9314	20000204
	JP 2002536354	T2	20021029	JP 2000-597256	20000204
	AT 247629	E	20030915	AT 2000-901791	20000204
	ZA 2001005845	A	20021016	ZA 2001-5845	20010716
PRAI	GB 1999-2592	A	19990206		
	WO 2000-GB345	W	20000204		

OS MARPAT 133:163952
AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepd. E.g., a 3-step prepn. of the formamidine II which showed moderate to total control against Erysiphe graminis f. sp. Tritici at 500 ppm (w/v) or less, was given.
IT **287940-41-4P 287940-42-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N2-phenylamidines as fungicides)
RN 287940-41-4 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[[6-[(trimethylsilyl)ethynyl]-2-pyridinyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 287940-42-5 CAPLUS
CN Methanimidamide, N'-[4-[(6-ethynyl-2-pyridinyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

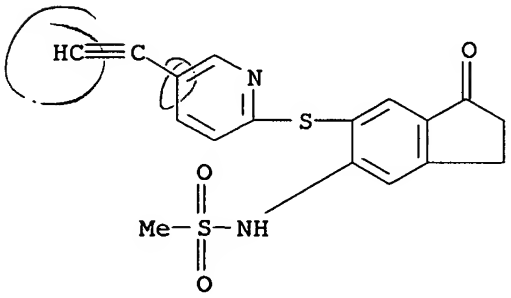


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1996:537647 CAPLUS
DN 125:195438
TI Preparation of 5-methanesulfonamido-6-(2-pyridylthio)-1-indanones as inhibitors of cyclooxygenase-2
IN Li, Chun-Sing; Black, W. Cameron; Ouimet, Nathalie
PA Merck Frosst Canada Inc., Can.
SO Can. Pat. Appl., 35 pp.
CODEN: CPXXEB
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CA 2164559	AA	19960610	CA 1995-2164559	19951206
PRAI US 1994-353025		19941209		

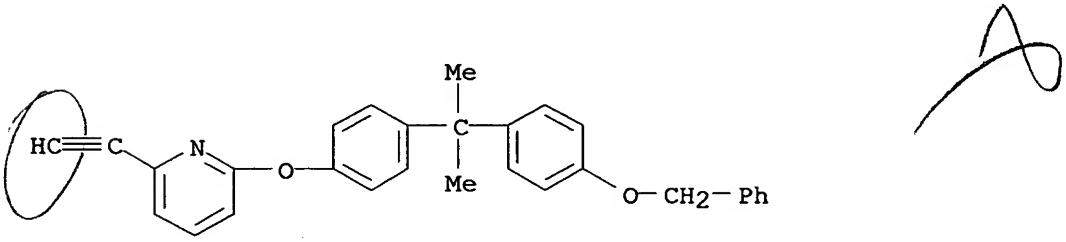
OS MARPAT 125:195438
AB The title compds. [I; A, B = H, halo, Me, Et, etc.], useful for treatment of inflammatory disease susceptible to treatment with a non-steroidal antiinflammatory agent, were prepd. Thus, reaction of 5-nitro-6-bromo-1-indanone with TMSO(CH2)2OTMS followed by substitution of indanone ethylene ketal II with 5-chloro-2-mercaptopyridine, treatment the intermediate III with Fe, NH4Cl in EtOH/H2O, reaction of indanone IV with MsCl and removal of one of methanesulfonyl groups from 5-bis(methanesulfonyl)amino deriv. with 1M NaOH in MeOH/THF afforded I (A = H; B = Cl) which showed IC50 of < 100 nM against cyclooxygenase-2.
IT **180636-41-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 5-methanesulfonamido-6-(2-pyridylthio)-1-indanones as inhibitors of cyclooxygenase-2)
RN 180636-41-3 CAPLUS
CN Methanesulfonamide, N-[6-[(5-ethynyl-2-pyridinyl)thio]-2,3-dihydro-1-oxo-1H-inden-5-yl]- (9CI) (CA INDEX NAME)



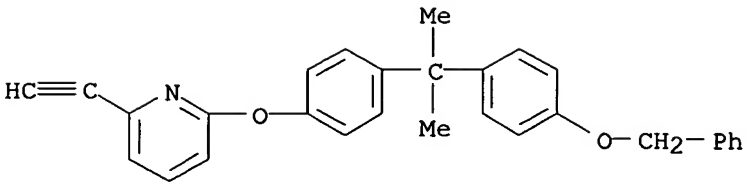
L7 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1991:656727 CAPLUS
DN 115:256727
TI Thermal polymerization of arylacetylenes: a stepwise activated monomer mechanism
AU Sekiguchi, Hikaru; Kang, Hee Cheol; Tersac, Gilles; Sillion, Bernard
CS Lab. Chim. Macromol., Univ. P. et M. Curie, Paris, 75252, Fr.
SO Makromolekulare Chemie, Macromolecular Symposia (1991), 47(Int. Symp. Mech. Kinet. Polym. React.: Their Use Polym. Synth., 1990), 317-28
CODEN: MCMSES; ISSN: 0258-0322
DT Journal
LA English
AB The kinetics of the thermal polymn. of ATR (acetylene-terminated resin) model compds., bisphenol A monobenzyl mono(ethynylaryl) ethers, was studied by GPC and the resulting oligomers characterized by FTIR, UV, and H1-NMR techniques. The monomer was consumed rapidly at first, and slowly later, giving a mixt. of dimer, low oligomers (d.p. .ltoreq. 6), and higher ones. The concns. of every lower species remained nearly const. throughout the polymn. (except for the first 10 min). To account for these results, a new mechanism involving the activation of monomer and its attack on the end unit of the polymer chain was proposed. This is the first example of an activated-monomer mechanism for noncatalyzed polymn. of unsatd. monomers and, at the same time, the first example of a stepwise activated-monomer mechanism. The structure of the product was discussed on the basis of this mechanism.
IT **137459-84-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, kinetics and mechanism of thermal)
RN 137459-84-8 CAPLUS
CN Pyridine, 2-ethynyl-6-[4-[1-methyl-1-[4-(phenylmethoxy)phenyl]ethyl]phenoxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 137459-83-7
CMF C29 H25 N O2



IT **137459-83-7**
RL: RCT (Reactant); RACT (Reactant or reagent)
(thermal polymn. of, kinetics and mechanism of)
RN 137459-83-7 CAPLUS
CN Pyridine, 2-ethynyl-6-[4-[1-methyl-1-[4-(phenylmethoxy)phenyl]ethyl]phenoxy]- (9CI) (CA INDEX NAME)


Me
HC≡C
N
O
C
Me
O—CH2—Ph

L7 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1989:115570 CAPLUS
DN 110:115570
TI Preparation and thermal polymerization of oligomeric poly(oxypyridinediyloxyarylenes bearing terminal acetylene groups
IN Dussart-Lermusiaux, Annie; Senneron, Michel; Rabilloud, Guy; Sillion, Bernard
PA Centre d'Etude des Materiaux Organiques pour Technologies Avancees, Fr.
SO Fr. Demande, 26 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2605010	A1	19880415	FR 1986-14090	19861009
	FR 2605010	B1	19881230		
	FR 2621041	A2	19890331	FR 1987-13405	19870925
	FR 2621041	B2	19900112		
	EP 267076	A1	19880511	EP 1987-402209	19871006
	R: BE, CH, DE, GB, IT, LI, NL				
	US 4814403	A	19890321	US 1987-105745	19871008
	JP 63117034	A2	19880521	JP 1987-256139	19871009
PRAI	FR 1986-14090		19861009		

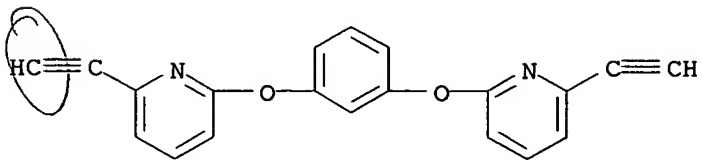
AB The title oligomers, useful in composites, adhesives, foams, etc., are prepd. by polymg. bisphenol salts with dihalopyridines and ethynylation of the halogen-terminated products. Heating 0.4 mol 2,6-dibromopyridine with 0.2 mol resorcinol and 41.49 g K2CO3 in N-methylpyrrolidone-PhMe at 130.degree. for 7 h with azeotropic distn. of H2O gave 91% 6,6'-(m-phenylenedioxy)bis(2-bromopyridine), catalytic condensation of which with 2-methyl-3-butyn-1-ol gave 66% bis(3-hydroxy-3-methyl-1-butynyl) deriv., alk. degrdn. of which gave 50% 2,2'-(m-phenylenedioxy)bis(6-ethynylpyridine) (I). Heating I at 180.degree. for 2 h gave a polymer with initial decompn. temp. (TGA) 356 and 379.degree. in air and Ar, resp., and wt. loss after 20 h at 300.degree. 2.7%.

IT **119421-85-1P 119421-86-2P 119421-88-4P**
119421-89-5P
RL: IMF (Industrial manufacture); PREP (Preparation)
(heat-resistant, manuf. of)

RN 119421-85-1 CAPLUS
CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 119409-37-9
CMF C20 H12 N2 O2

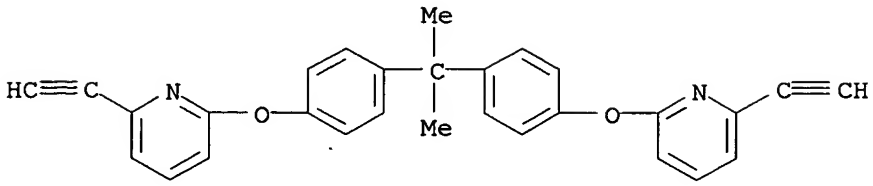


RN 119421-86-2 CAPLUS
CN Pyridine, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[6-ethynyl-,

homopolymer (9CI) (CA INDEX NAME)

CM 1

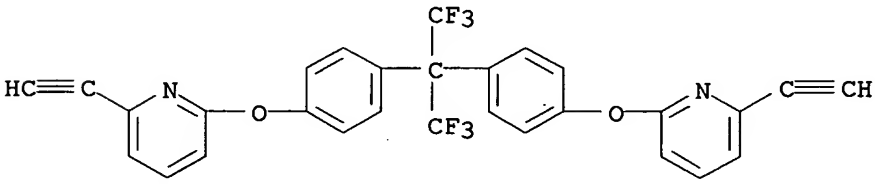
CRN 119409-38-0
CMF C29 H22 N2 O2



RN 119421-88-4 CAPLUS
CN Pyridine, 2,2'-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

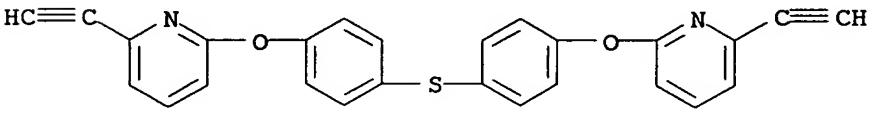
CRN 119421-98-6
CMF C29 H16 F6 N2 O2



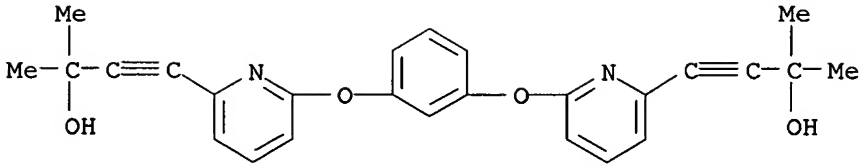
RN 119421-89-5 CAPLUS
CN Pyridine, 2,2'-[thiobis(4,1-phenyleneoxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

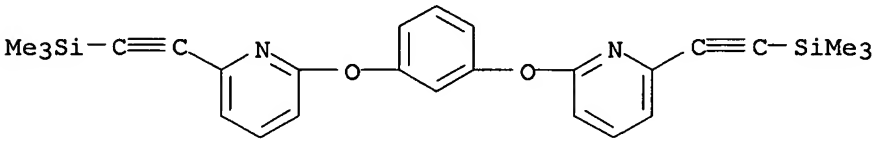
CRN 119409-40-4
CMF C26 H16 N2 O2 S



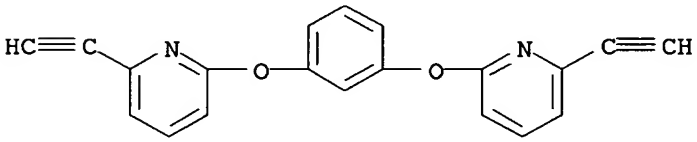
IT **119409-36-8P 119409-39-1P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(manuf. and degrdn. of)
RN 119409-36-8 CAPLUS
CN 3-Butyn-2-ol, 4,4'-[1,3-phenylenebis(oxy-6,2-pyridinediyl)]bis[2-methyl- (9CI) (CA INDEX NAME)



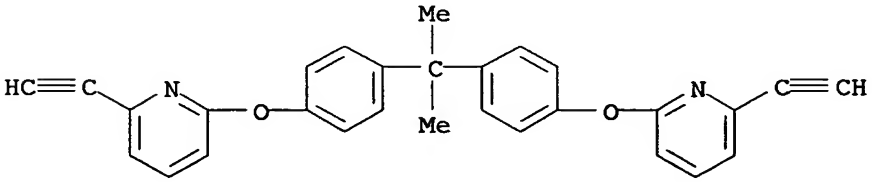
RN 119409-39-1 CAPLUS
CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



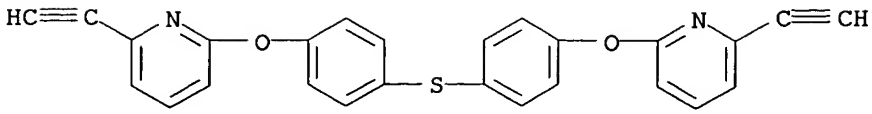
IT **119409-37-9P 119409-38-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(manuf. of)
RN 119409-37-9 CAPLUS
CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



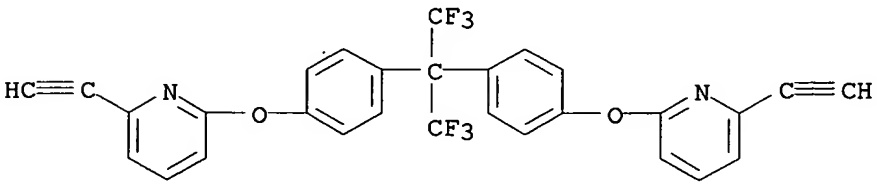
RN 119409-38-0 CAPLUS
CN Pyridine, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



IT **119409-40-4P 119421-98-6P**
RL: PREP (Preparation)
(prepn. of)
RN 119409-40-4 CAPLUS
CN Pyridine, 2,2'-[thiobis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



RN 119421-98-6 CAPLUS
CN Pyridine, 2,2'-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



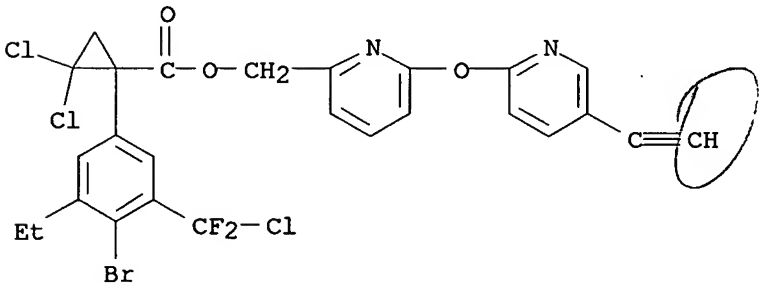
L7 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1985:108261 CAPLUS
DN 102:108261
TI Pyridylmethyl derivatives as pesticides
PA Katsuta, Sumio, Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 59152303	A2	19840831	JP 1983-24389	19830216
	JP 03026162	B4	19910410		
PRAI	JP 1983-24389		19830216		

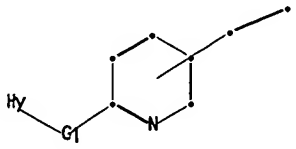
AB Pyridylmethyl derivs. are pesticides. Thus, 0.2% 3'-(4'-pyridyloxy)-.alpha.'-cyano-2-pyridylmethyl 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropanecarboxylate [94337-43-6] in kerosine controlled houseflies by 100% in 24 h. Syntheses of the derivs. are described.

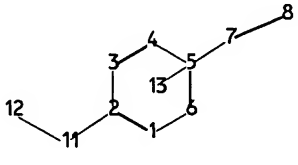
IT **94337-88-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and pesticidal activity of)

RN 94337-88-9 CAPLUS
CN Cyclopropanecarboxylic acid, 1-[4-bromo-3-(chlorodifluoromethyl)-5-ethylphenyl]-2,2-dichloro-, [6-[(5-ethynyl-2-pyridinyl)oxy]-2-pyridinyl]methyl ester (9CI) (CA INDEX NAME)



C:\STNEXP4\QUERIES\10087066 (rce 2).str





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7 8 11 12
ring nodes :
1 2 3 4 5 6
chain bonds :
2-11 7-8 11-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
2-11 11-12
exact bonds :
7-8
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,S

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 11:CLASS 12:Atom
13:CLASS
Generic attributes :
12:
Saturation : Unsaturated
Type of Ring System : Polycyclic

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=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end


=> screen 1839

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=> screen 2016 OR  2039 OR  2040 OR  2045 OR  2047

L2    SCREEN CREATED

=>
Uploading C:\STNEXP4\QUERIES\10087066 (rce 2).str

L3      STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4   QUE L3 AND L1 NOT L2

=> d l4
L4 HAS NO ANSWERS
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L2              SCR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L3              STR

   Cb 1

Hy 2
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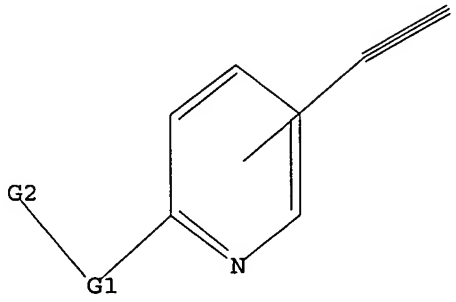


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   Hy 3
G1 O,S
G2 [@1],[@2],[@3]


Structure attributes must be viewed using STN Express query preparation.
L4              QUE  L3 AND L1 NOT L2


=> s l4 sss sam
SAMPLE SEARCH INITIATED 06:44:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    159 TO ITERATE

100.0% PROCESSED     159 ITERATIONS                          3 ANSWERS
SEARCH TIME: 00.00.01
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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          2424 TO     3936
PROJECTED ANSWERS:                3 TO      163

L5            3 SEA SSS SAM L3 AND L1 NOT L2

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end


=> screen 1839

L6    SCREEN CREATED

=> screen 2016 OR  2039 OR  2040 OR  2045 OR  2047

L7    SCREEN CREATED

=>
Uploading C:\STNEXP4\QUERIES\10087066 (rce 2).str

L8      STRUCTURE UPLOADED

=> que L8 AND L6 NOT L7

L9   QUE L8 AND L6 NOT L7

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L7              SCR 2016 OR 2039 OR 2040 OR 2045 OR 2047
L8              STR
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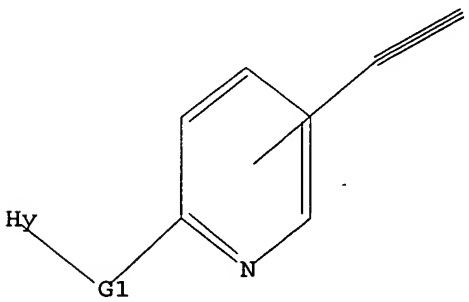


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G1 O,S


Structure attributes must be viewed using STN Express query preparation.
L9              QUE  L8 AND L6 NOT L7


=> s l9 sss sam
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SAMPLE SCREEN SEARCH COMPLETED -    162 TO ITERATE

100.0% PROCESSED     162 ITERATIONS                          0 ANSWERS
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SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          2477 TO     4003
PROJECTED ANSWERS:                0 TO        0

L10           0 SEA SSS SAM L8 AND L6 NOT L7

=> s l9 sss ful
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FULL SCREEN SEARCH COMPLETED -   3242 TO ITERATE

100.0% PROCESSED    3242 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

L11           0 SEA SSS FUL L8 AND L6 NOT L7
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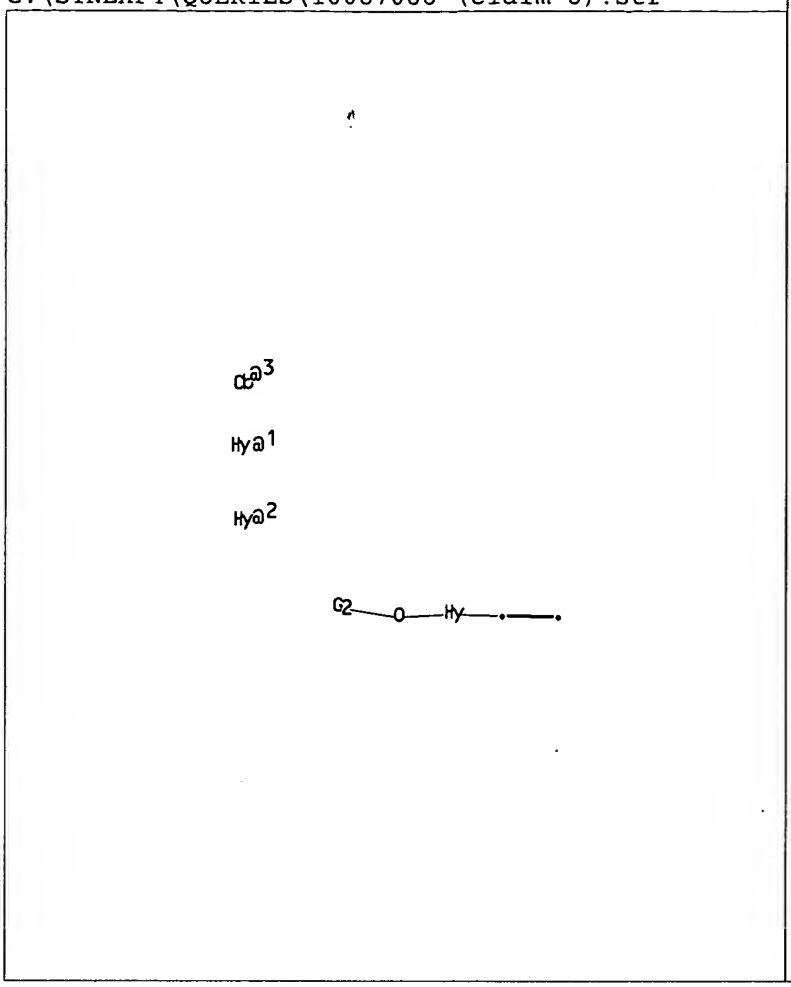
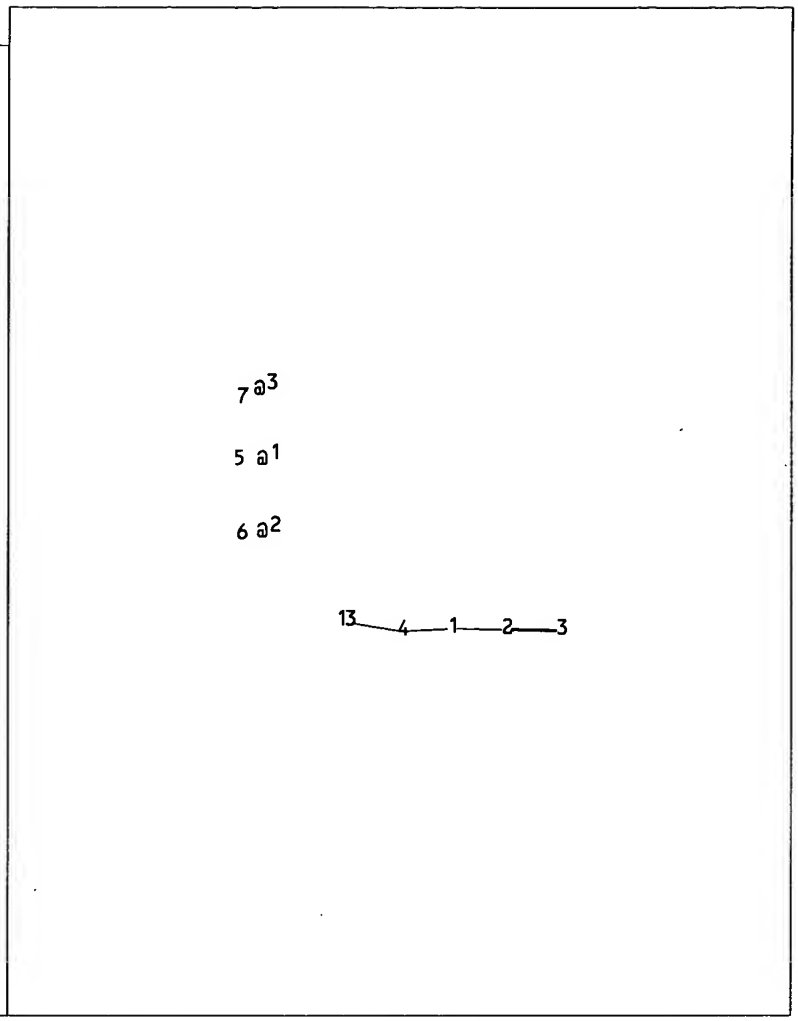
C:\STNEXP4\QUERIES\10087066 (claim 8).str





chain nodes :
1 2 3 4 5 6 7 13
chain bonds :
1-2 1-4 2-3 4-13
exact/norm bonds :
1-2 1-4 4-13
exact bonds :
2-3

G2:[*1],[*2],[*3]

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 13:CLASS
Generic attributes :
1:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : less than 2
Type of Ring System : Monocyclic
5:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic
6:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : less than 2
Type of Ring System : Monocyclic
7:
Saturation : Unsaturated

Element Count :

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Node 1: Limited
    C,C5
    N,N1
    O,O0
    S,S0

Node 5: Limited
    C,C3-5
    N,N1-2
    S,S0
    O,O0

Node 6: Limited
    C,C4
    S,S1
    O,O0
    N,N0
```

=>
Uploading 10087066 (claim 8).str

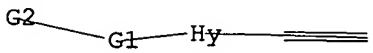
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

Cb [3]

Hy 1

Hy [2]



G1 O,S
G2 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 13:14:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 13803 TO ITERATE

7.2% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 269033 TO 283087
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>
Uploading 10087066 (claim 8).str

L3 STRUCTURE UPLOADED

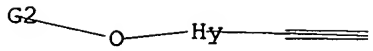
=> d l3
L3 HAS NO ANSWERS

L3 STR

Cb 3

Hy 1

Hy 2



G1

G2 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

```
=> s l3 sss sam
SAMPLE SEARCH INITIATED 13:15:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  13386 TO ITERATE

  7.5% PROCESSED    1000 ITERATIONS                                1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       260799 TO   274641
PROJECTED ANSWERS:              48 TO      486

L4            1 SEA SSS SAM L3

=>
Uploading 10087066 (claim 8).str

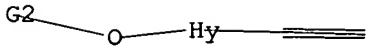
L5      STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5              STR
```

Cb [3]

Hy 1

Hy [2]



G1

G2 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

```
=> s l5 sss sam
SAMPLE SEARCH INITIATED 13:20:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  13386 TO ITERATE

  7.5% PROCESSED    1000 ITERATIONS                                1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       260799 TO   274641
PROJECTED ANSWERS:              48 TO      486

L6            1 SEA SSS SAM L5

=> s l5 sss ful
FULL SEARCH INITIATED 13:20:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 271272 TO ITERATE

100.0% PROCESSED  271272 ITERATIONS                             54 ANSWERS
SEARCH TIME: 00.00.03

L7           54 SEA SSS FUL L5

=> s l7
L8          14 L7

=> d l8 1-14 bib,ab,hitstr
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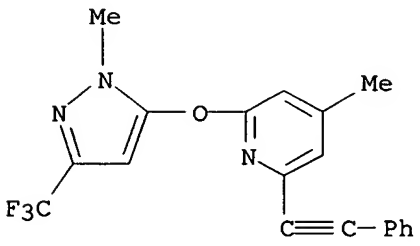
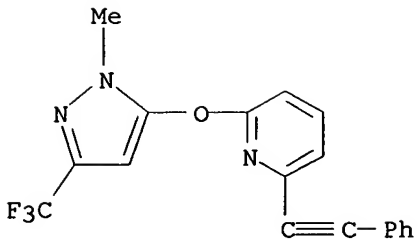
L8 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 2002:693101 CAPLUS
DN 137:212312
TI Herbicidal 2-alkynyl-pyri(mi)dines
IN Maier, Thomas
PA BASF Aktiengesellschaft, Germany
SO Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1238586	A1	20020911	EP 2002-3518	20020215
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2002322006	A2	20021108	JP 2002-59386	20020305
PRAI	US 2001-274755P	P	20010309		

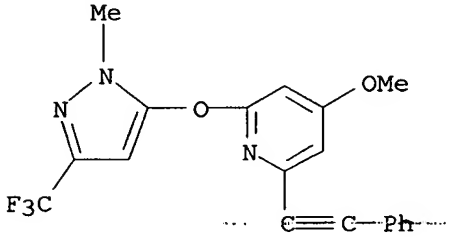
OS MARPAT 137:212312
AB A method of combating undesired plant growth at a locus comprises application to the locus of an effective amt. of at least one compd. I (R1 = (un)substituted alkyl, alkenyl, alkynyl, alkoxy,alkoxyalkyl, alkoxyalkoxy, haloalkyl, haloalkoxy, cyano, nitro, SF5, etc.; R3 = H, formyl, (un)substituted alkyl, alkenyl, trihydrocarbylsilyl, aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group;A = (un)substituted aryl, (un)substituted 5- or 6-membered nitrogen-contg. heteroarom. group, or (un)substituted thienyl; Z = O, S or single bond; X = N or CR2 (R2 = H, or R2 = R1); m = 0, 1, or 2) and the agronomically acceptable salts or N-oxides thereof, or herbicidal compns. contg. such compds. as active ingredients.
IT **457057-31-7 457057-33-9 457057-34-0**
457057-35-1 457057-36-2 457057-37-3
457057-40-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicide)
RN 457057-31-7 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



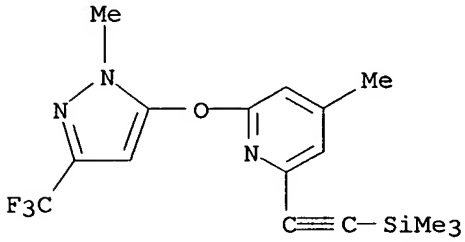
RN 457057-33-9 CAPLUS
CN Pyridine, 2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



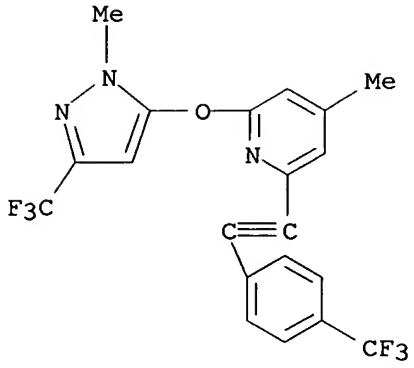
RN 457057-34-0 CAPLUS
CN Pyridine, 4-methoxy-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-(phenylethynyl)- (9CI) (CA INDEX NAME)



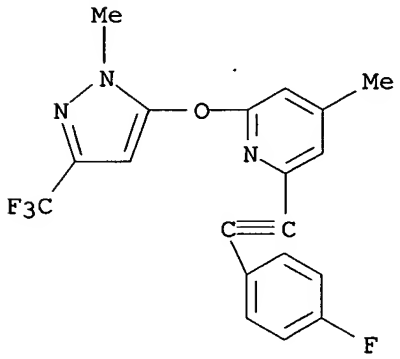
RN 457057-35-1 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



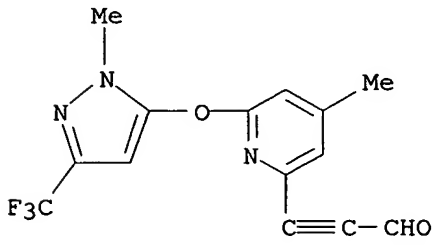
RN 457057-36-2 CAPLUS
CN Pyridine, 4-methyl-2-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-6-[[4-(trifluoromethyl)phenyl]ethynyl]- (9CI) (CA INDEX NAME)



RN 457057-37-3 CAPLUS
CN Pyridine, 2-[(4-fluorophenyl)ethynyl]-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)

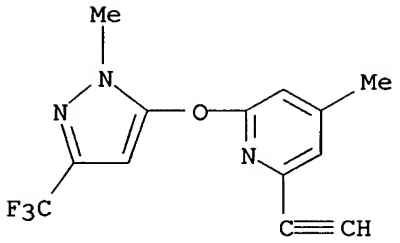


RN 457057-40-8 CAPLUS
CN 2-Propynal, 3-[4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)

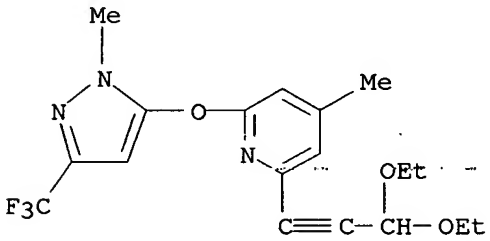


IT **457057-38-4 457057-39-5**
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(herbicide)
RN 457057-38-4 CAPLUS
CN Pyridine, 2-ethynyl-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-

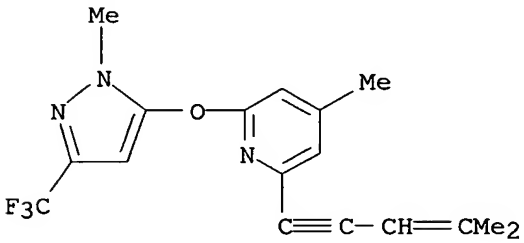
yl]oxy]- (9CI) (CA INDEX NAME)



RN 457057-39-5 CAPLUS
CN Pyridine, 2-(3,3-diethoxy-1-propynyl)-4-methyl-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



IT **457057-41-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. as herbicide)
RN 457057-41-9 CAPLUS
CN Pyridine, 4-methyl-2-(4-methyl-3-penten-1-ynyl)-6-[[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy]- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 2002:368990 CAPLUS
DN 136:363869
TI Preparation of pyridyl olefinic and acetylenic cycloalkylamines as prodrug modulators of nicotinic cholinergic receptors and agents for central nervous system disorders
IN Dull, Gary Maurice; Schmitt, Jeffrey Daniel; Bhatti, Balwinder Singh; Miller, Craig Harrison
PA USA
SO U.S. Pat. Appl. Publ., 29 pp., Cont.-in-part of U.S. Ser. No. 431,700, abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

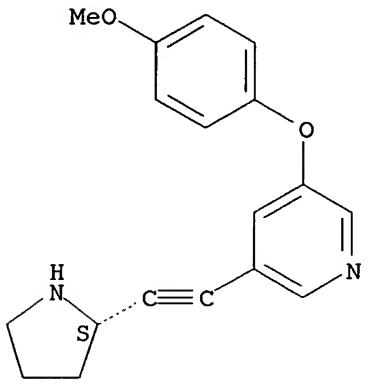
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2002058652	A1	20020516	US 2001-845526	20010430
WO 2002088114	A2	20021107	WO 2002-US13635	20020429

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-431700 B2 19991101
US 2001-845526 A 20010430
OS MARPAT 136:363869
AB Patients susceptible to or suffering from conditions and disorders, e.g. central nervous system disorders, are treated by administering aryl olefinic azacyclic compds. and aryl acetylenic azacyclic compds., including pyridyl olefinic cycloalkylamines and pyridyl acetylenic cycloalkylamines I wherein X and X1' are individually nitrogen, nitrogen bonded to oxygen or carbon bonded to a substituent species characterized as having a sigma m value between about -0.3 and about 0.75; Z is (CEEI)p-(CEIIEIII)n ; p and n are integers such that the sum of p plus n is 0, 1, 2 or 3; E, EI, EII and EIII individually represent hydrogen or a suitable non-hydrogen substituent; and Q is heterocycle. Thus, (E)-(S)-3-(4-hydroxyphenoxy)-5-(pyrrolidin-2-ylvinyl)pyridine was prepd. as prodrug modulator of nicotinic cholinergic receptor and agent for central nervous system disorder (Ki of 20 nM). The low binding const. indicates that the compd. exhibits good high-affinity binding to certain CNS nicotinic receptors. Compds. of the present invention exhibit inhibitory effects upon cytokine prodn. and/or secretion when employed in amts. less than those amts. necessary to elicit activation of relevant nicotinic receptor subtypes to any significant degree.
IT **422557-03-7P 422557-04-8P 422557-05-9P**
422557-13-9P 422557-14-0P 422557-17-3P
422557-18-4P 422557-25-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of pyridyl olefinic and acetylenic cycloalkylamines as prodrug modulators of nicotinic cholinergic receptors and agents for central

nervous system disorders)
RN 422557-03-7 CAPLUS
CN Pyridine, 3-(4-methoxyphenoxy)-5-[(2S)-2-pyrrolidinylethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

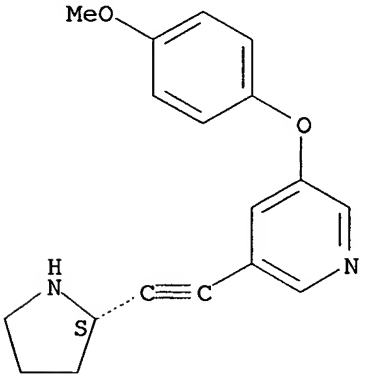


RN 422557-04-8 CAPLUS
CN Galactaric acid, compd. with 3-(4-methoxyphenoxy)-5-[(2S)-2-pyrrolidinylethynyl]pyridine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 422557-03-7
CMF C18 H18 N2 O2

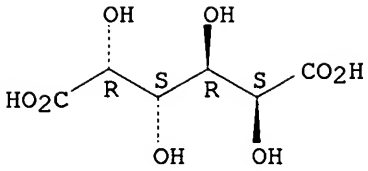
Absolute stereochemistry.



CM 2

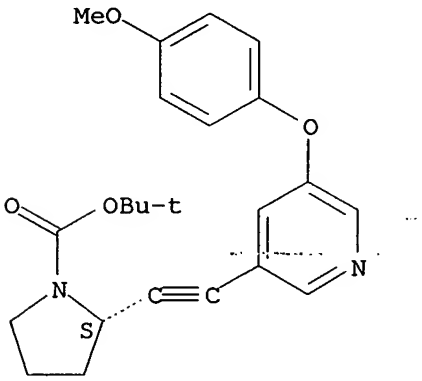
CRN 526-99-8
CMF C6 H10 O8

Relative stereochemistry.



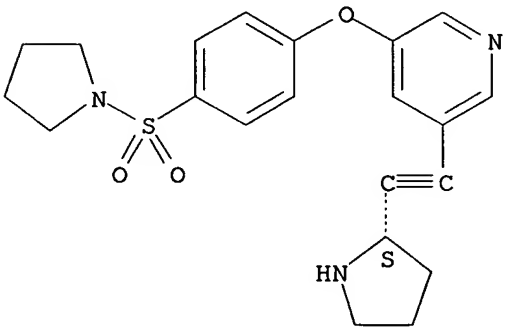
RN 422557-05-9 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[[5-(4-methoxyphenoxy)-3-pyridinyl]ethynyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 422557-13-9 CAPLUS
CN Pyrrolidine, 1-[[4-[[5-[(2S)-2-pyrrolidinylethynyl]-3-pyridinyl]oxy]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

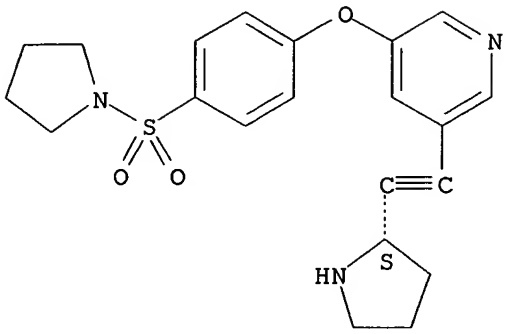


RN 422557-14-0 CAPLUS
CN Galactaric acid, compd. with 1-[[4-[[5-[(2S)-2-pyrrolidinylethynyl]-3-pyridinyl]oxy]phenyl]sulfonyl]pyrrolidine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 422557-13-9
CMF C21 H23 N3 O3 S

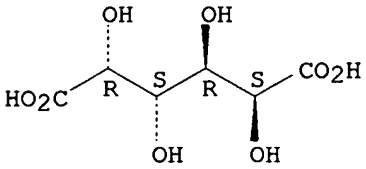
Absolute stereochemistry.



CM 2

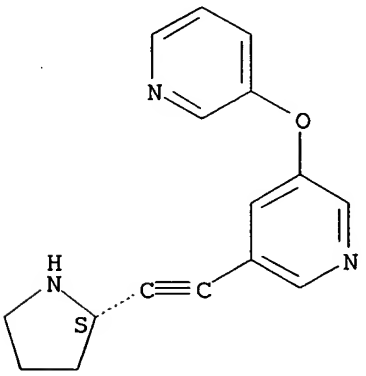
CRN 526-99-8
CMF C6 H10 O8

Relative stereochemistry.



RN 422557-17-3 CAPLUS
CN Pyridine, 3-(3-pyridinyloxy)-5-[(2S)-2-pyrrolidinylethynyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

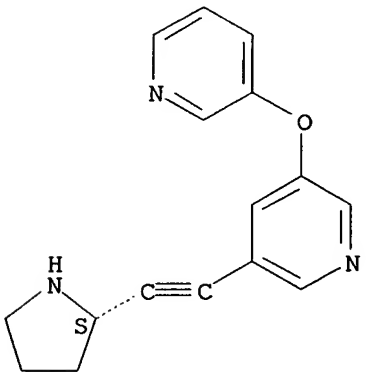


RN 422557-18-4 CAPLUS
CN Galactaric acid, compd. with 3-(3-pyridinyloxy)-5-[(2S)-2-pyrrolidinylethynyl]pyridine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 422557-17-3
CMF C16 H15 N3 O

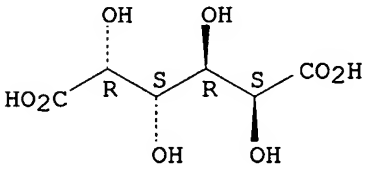
Absolute stereochemistry.



CM 2

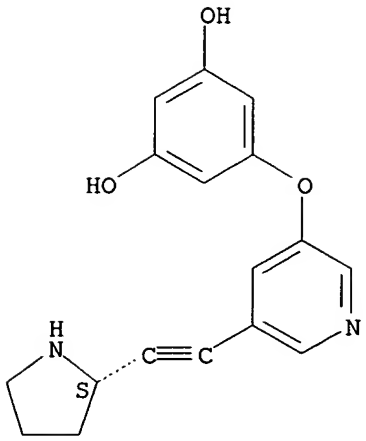
CRN 526-99-8
CMF C6 H10 O8

Relative stereochemistry.



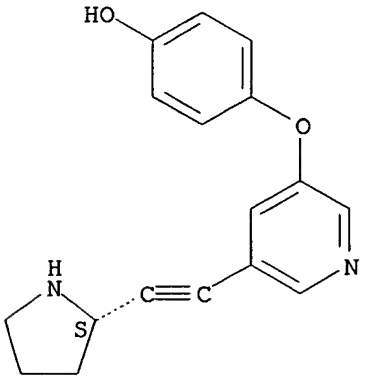
RN 422557-25-3 CAPLUS
CN 1,3-Benzenediol, 5-[[5-[(2S)-2-pyrrolidinylethynyl]-3-pyridinyl]oxy]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



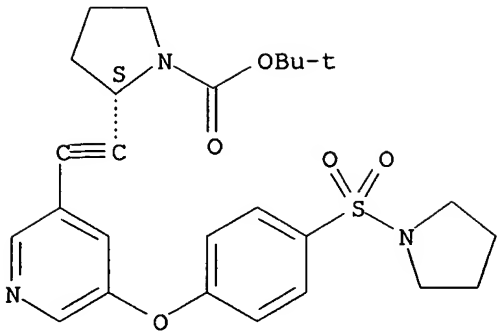
IT **422557-06-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of pyridyl olefinic and acetylenic cycloalkylamines as prodrug modulators of nicotinic cholinergic receptors and agents for central nervous system disorders)
RN 422557-06-0 CAPLUS
CN Phenol, 4-[[5-[(2S)-2-pyrrolidinylethynyl]-3-pyridinyl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



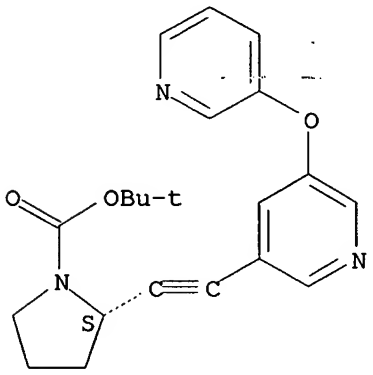
IT **422557-16-2P 422557-20-8P 422557-27-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of pyridyl olefinic and acetylenic cycloalkylamines as prodrug modulators of nicotinic cholinergic receptors and agents for central nervous system disorders)
RN 422557-16-2 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[[5-[4-(1-pyrrolidinylsulfonyl)phenoxy]-3-pyridinyl]ethynyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



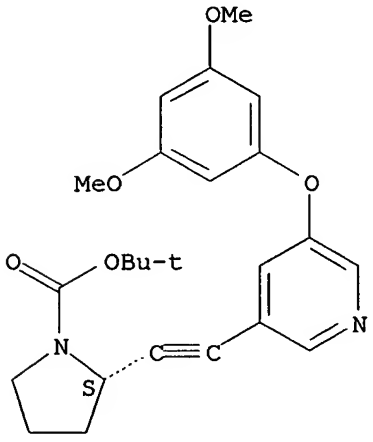
RN 422557-20-8 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[[5-(3-pyridinyloxy)-3-pyridinyl]ethynyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 422557-27-5 CAPLUS
CN 1-Pyrrolidinecarboxylic acid, 2-[[5-(3,5-dimethoxyphenoxy)-3-pyridinyl]ethynyl]-, 1,1-dimethylethyl ester, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 2002:314913 CAPLUS
DN 136:340689
TI Preparation of urea derivatives containing nitrogenous aromatic ring compounds as inhibitors of angiogenesis
IN Funahashi, Yasuhiro; Tsuruoka, Akihiko; Matsukura, Masayuki; Haneda, Toru; Fukuda, Yoshio; Kamata, Junichi; Takahashi, Keiko; Matsushima, Tomohiro; Miyazaki, Kazuki; Nomoto, Kenichi; Watanabe, Tatsuo; Obaishi, Hiroshi; Yamaguchi, Atsumi; Suzuki, Sachi; Nakamura, Katsuji; Mimura, Fusayo; Yamamoto, Yuji; Matsui, Junji; Matsui, Kenji; Yoshiba, Takako; Suzuki, Yasuyuki; Arimoto, Itaru
PA Eisai Co., Ltd., Japan
SO PCT Int. Appl., 699 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002032872	A1	20020425	WO 2001-JP9221	20011019
	WO 2002032872	C1	20020926		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

	AU 2001095986	A5	20020429	AU 2001-95986	20011019
PRAI	JP 2000-320420	A	20001020		
	JP 2000-386195	A	20001220		
	JP 2001-46685	A	20010222		
	WO 2001-JP9221	W	20011019		

OS MARPAT 136:340689
AB N-aryl or N-heteroarylurea derivs. represented by the general formula Ag-Xg-Yg-Tg1 or salts thereof, or hydrates of both [wherein Ag = (un)substituted C6-14 aryl or 5- to 14-membered heterocyclic group; Xg = single bond, O, S, C1-6 alkylene, SO, SO2, (un)substituted NH; Yg = (un)substituted C6-14 aryl, 5- to 14-membered heterocyclic group, C1-8 alkyl, C3-8 alicyclic hydrocarbyl, C6-14 aryl-C1-6 alkyl, 5- to 14-membered heteroaryl-C1-6 alkyl, (CH2)gSO2 (g = 1-8), (CH2)faCH:CH(CH2)fb (fa, fb = 0, 1,2,3), etc.; and Tg1 = a group of the general formula -Eg-CO-NRg1(Zg) or Q; wherein Eg = a single bond, (un)substituted NH; Rg1 = H, (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-8 aliph. hydrocarbyl, etc.; Zg = C1-8 alkyl, C3-8 alicyclic hydrocarbyl, C6-14 aryl, etc.; Zg1, Zg2 = (a) a single bond, (b) C1-6 alkylene optionally having .gtoreq.1 atoms selected from O, S, and N in the middle or the terminus of the chain and optionally substituted with oxo, (c) (un)substituted C2-6 alkenyl] are prepd. These compds. are also inhibitors of vascular endothelial growth factor receptor kinase (VEGFR2 kinase) and are useful as antitumor agents against hemangioma, pancreatic cancer, stomach cancer, colon cancer, breast cancer, prostate cancer, lung cancer, brain tumor, leukemia, or ovarian cancer, as cancer metastasis inhibitors, and for the treatment of retina neovascularization, diabetic retinopathy, atherosclerosis, or inflammatory diseases such as osteoarthritis, rheumatoid arthritis, psoriasis, or delayed

hypersensitivity. Thus, to soln. of 334 mg 4-[6-(4-benzyloxyphenyl)-7-(2-trimethylsilylethoxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenylamine in 4 mL DMF were added 0.066 mL pyridine and 0.102 mL Ph chlorocarbonate and stirred at room temp. for 2.5 h to give 330 mg N-[4-[6-(4-benzyloxyphenyl)-7-(2-trimethylsilylethoxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenyl]-N'-cyclopropylurea which (260 mg) was hydrogenolyzed over platinum oxide in ethanol overnight to give 160 mg N-[4-[6-(4-hydroxyphenyl)-7-(2-trimethylsilylethoxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenyl]-N'-cyclopropylurea (I). I showed IC50 of 0.02 nM for inhibiting the vascular endothelial growth factor (VEGF)-stimulated sandwich tube formation in vascular endothelial cell.

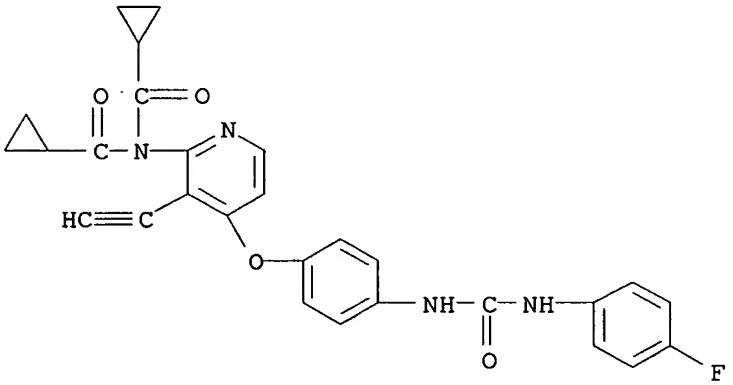
IT **417714-79-5P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of urea derivs. contg. nitrogenous arom. ring compds. as angiogenesis inhibitors for prevention or treatment of diseases)

RN 417714-79-5 CAPLUS

CN Cyclopropanecarboxamide, N-(cyclopropylcarbonyl)-N-[3-ethynyl-4-[4-[[[(4-fluorophenyl)amino]carbonyl]amino]phenoxy]-2-pyridinyl]- (9CI) (CA INDEX NAME)



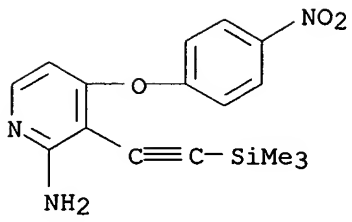
IT **417721-77-8P 417721-80-3P 417721-81-4P 417721-82-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

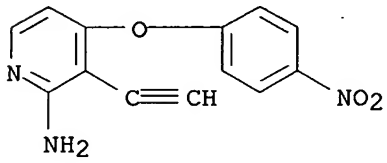
(prepn. of urea derivs. contg. nitrogenous arom. ring compds. as angiogenesis inhibitors for prevention or treatment of diseases)

RN 417721-77-8 CAPLUS

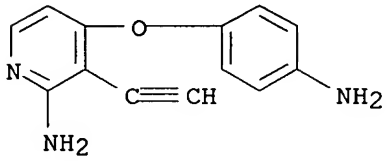
CN 2-Pyridinamine, 4-(4-nitrophenoxy)-3-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



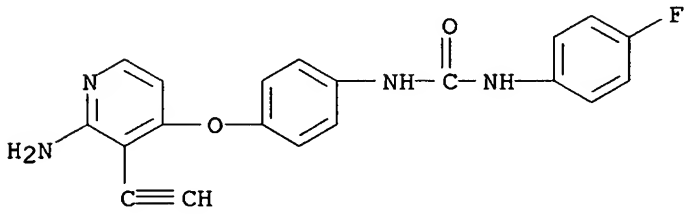
RN 417721-80-3 CAPLUS
CN 2-Pyridinamine, 3-ethynyl-4-(4-nitrophenoxy)- (9CI) (CA INDEX NAME)



RN 417721-81-4 CAPLUS
CN 2-Pyridinamine, 4-(4-aminophenoxy)-3-ethynyl- (9CI) (CA INDEX NAME)



RN 417721-82-5 CAPLUS
CN Urea, N-[4-[(2-amino-3-ethynyl-4-pyridinyl)oxy]phenyl]-N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

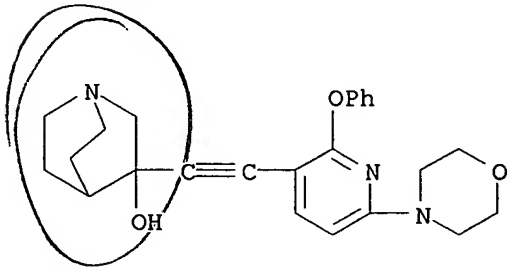


RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 2001:247333 CAPLUS
DN 134:266475
TI Preparation of quinuclidine compounds and drugs containing the same as the active ingredient of squalene synthase inhibitors
IN Okada, Toshimi; Kurusu, Nobuyuki; Tanaka, Keigo; Miyazaki, Kazuki; Shinmyo, Daisuke; Sugumi, Hiroyuki; Ikuta, Hironori; Hiyoshi, Hironobu; Saeki, Takao; Yanagimachi, Mamoru; Ito, Masashi
PA Eisai Co., Ltd., Japan; et al.
SO PCT Int. Appl., 267 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001023383	A1	20010405	WO 2000-JP6665	20000927
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 2000074464	A5	20010430	AU 2000-74464	20000927
EP 1217001	A1	20020626	EP 2000-962889	20000927
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NO 200200I528	A	20020528	NO 2002-1528	20020326
PRAI JP 1999-273905	A	19990928		
JP 2000-179352	A	20000615		
WO 2000-JP6665	W	20000927		

OS MARPAT 134:266475
AB Title compds. [I; wherein R1 is hydrogen or hydroxyl; HAr is an optionally substituted arom. heterocycle; Ar is an optionally substituted arom. ring; W is a CH2CH2 group which may be substituted, a CH:CH group which may be substituted, CC, NHCO, or the like; X is a single bond, optionally substituted C1-6 alkylene, Q ;wherein Q is oxygen, sulfur, CO, N(R2) ; wherein R2 is C1-6 alkyl or C1-6 alkoxy, NHCO, or the like], salts thereof, or hydrates of both, are prepd. and are useful as excellent squalene synthase inhibitors. Thus, the title compd. II was prepd. and tested.
IT **332132-06-6P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of quinuclidine compds. and drugs contg. the same as active ingredient of squalene synthase inhibitors)
RN 332132-06-6 CAPLUS
CN 1-Azabicyclo[2.2.2]octan-3-ol, 3-[[6-(4-morpholinyl)-2-phenoxy-3-pyridinyl]ethynyl]- (9CI) (CA INDEX NAME)

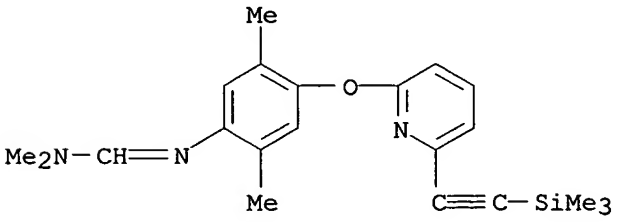


RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 2000:553541 CAPLUS
DN 133:163952
TI Preparation of N2-phenylamidines as fungicides
IN Charles, Mark David; Franke, Wilfried; Green, David Eric; Hough, Thomas Lawley; Mitchell, Dale Robert; Simpson, Donald James; Atherall, John Frederick
PA Hoechst Schering Agrevo G.m.b.H., Germany
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

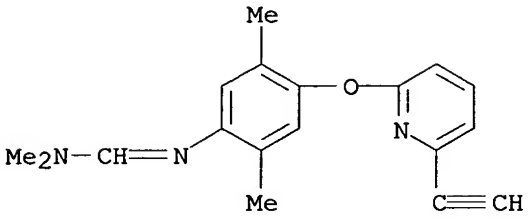
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000046184	A1	20000810	WO 2000-GB345	20000204
	W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1150944	A1	20011107	EP 2000-901791	20000204
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	BR 2000009314	A	20020213	BR 2000-9314	20000204
	JP 2002536354	T2	20021029	JP 2000-597256	20000204
PRAI	GB 1999-2592	A	19990206		
	WO 2000-GB345	W	20000204		

OS MARPAT 133:163952
AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepd. E.g., a 3-step prepn. of the formamidine II which showed moderate to total control against Erysiphe graminis f. sp. Tritici at 500 ppm (w/v) or less, was given.
IT **287940-41-4P 287940-42-5P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N2-phenylamidines as fungicides)
RN 287940-41-4 CAPLUS
CN Methanimidamide, N'-[2,5-dimethyl-4-[[6-[(trimethylsilyl)ethynyl]-2-pyridinyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 287940-42-5 CAPLUS
CN Methanimidamide, N'-[4-[(6-ethynyl-2-pyridinyl)oxy]-2,5-dimethylphenyl]-

N,N-dimethyl- (9CI) (CA INDEX NAME)

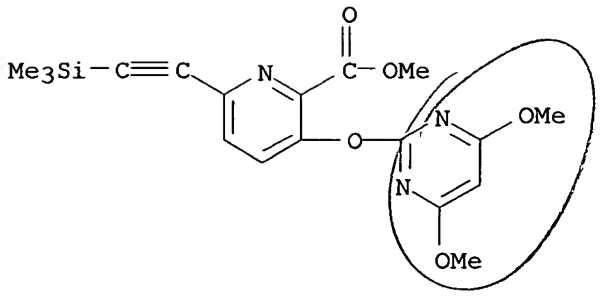


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1995:665000 CAPLUS
DN 123:55906
TI Picolinic acid derivatives and their herbicidal compositions
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Hanai, Ryo
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO U.S., 19 pp. Cont.-in-part of U.S. Ser. No. 842,163, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5391537	A	19950221	US 1992-960844	19921014
	US 5403816	A	19950404	US 1993-48516	19930420
PRAI	JP 1990-288180	A	19901025		
	US 1992-842163	B2	19920331		
	JP 1992-129376	A	19920423		
	US 1992-960844	A2	19921014		

OS MARPAT 123:55906
AB The present invention is to provide a novel picolinic acid deriv. having the formula I or a salt thereof wherein R is a hydrogen atom, a (C1-C4) alkyl group, a (C2-C4) alkenyl group, a (C2-C4) alkynyl group, a benzyl group, a halogen-substituted (C1-C4) alkyl group, a cyano (C1-C4)alkyl group, a (C1-C4) alkoxy (C1-C4) alkyl group, a (C1-C4) alkoxycarbonyloxy (C1-C4) alkyl group, a (C1-C4) alkyl group, a cyclo (C4-C7) alkylcarbonyloxy (C1-C4) alkyl group, a cyclo (C3-C6) alkyl (C1-C4) alkyl group, an alkali metal atom selected from the group consisting of sodium and potassium, an alkali earth metal atom or an org. amine cation selected from the group consisting of a (C1-C4) alkylamino and a di-(C1-C4) alkylamine; R1 and R2 are the same or different, and are a (C1-C4) alkyl group, a (C1-C4) alkoxy group, a halogen atom, a halogen-substituted (C1-C4) alkoxy group or a (C1-C4) alkylsulfonyl group; X = NR3R4 wherein R3, R4 are the same or different and are, e.g., H, C1-4 alkyl, Ph; Y = O, NR5 wherein R5 is a hydrogen atom or a formyl group; and n is 0 or 1; provided that when X is a hydrogen atom, Y is a group having the formula NCHO; a method for prepg. the same; and a herbicidal compn. contg. the same as an active ingredient. The picolinic acid deriv. or the salt thereof of the present invention achieves an excellent herbicidal effect at a low dosage, and is effective for controlling the growth of various weeds in a wide range. The picolinic acid deriv. or the salt thereof of the present invention can be applied to a paddy field, a cultivated field, a non-agricultural land and the like as a herbicidal compn. Thus, e.g., reaction of Me 6-(N,N-dimethylamino)-3-hydroxypicolinate with 4,6-dimethoxy-2-methylsulfonylpyrimidine afforded Me 3-(4,6-dimethoxypyrimidin-2-yl)oxy-6-(N,N-dimethylamino)picolinate in 66% yield which showed at least 90% growth control of barnyardgrass, monochoria, and bulrush.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(herbicidal picolinic acid derivs.)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)


Me3Si
C
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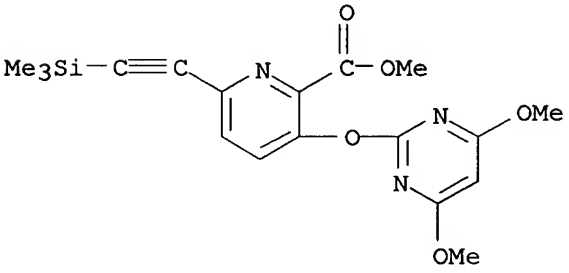
N
O
C
OMe
O
N
OMe
N
OMe

L8 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1995:380295 CAPLUS
DN 122:160668
TI Preparation of picolinic acid derivatives as herbicides
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Yoshida, Ryo
PA Kumiai Chemical Industry Co, Japan; Ihara Chemical Ind Co
SO Jpn. Kokai Tokkyo Koho, 34 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 06316574	A2	19941115	JP 1991-302644	19911023
JP 2779720	B2	19980723		

OS CASREACT 122:160668; MARPAT 122:160668
AB Title compds. I [R1 = H, alkyl, alkenyl, alkynyl, benzyl, haloalkyl, cyanoalkyl, etc.; R2 = H, alkyl, alkoxy, halo, haloalkoxy, alkylsulfonyl, R ; X = (un)substituted amino, etc.; Y = O, S, (un)substituted imino; n = 0, 1] are prepd. Thus, Me 6-(dimethylamino)-3-hydroxypicolinate was treated with 4,6-dimethoxy-2-(methylsulfonyl)pyrimidine in DMF contg. K2CO3 was heated at 90.degree. for 2 h to give 66% the title compd. I [X = 6-dimethylamino, Y = O, R = Me, R1 = R2 = MeO, n = 0]. This at 100 g/10 are effected 100% kill against Cyperus difformis.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of picolinic acid derivs. as herbicides)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)



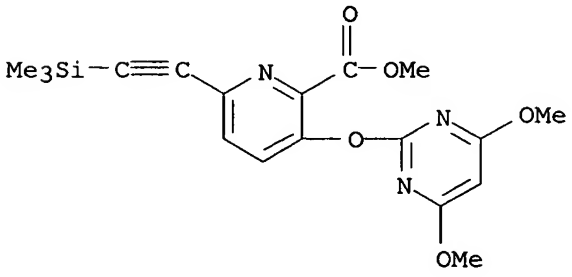
Same as #6.

L8 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1994:8609 CAPLUS
DN 120:8609
TI Preparation of (pyrimidinyloxy)picolinic acid analogs as herbicides
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Hanai, Ryo
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9312109	A1	19930624	WO 1991-JP1725	19911218
W: BR, HU, PL, RO, SU				
HU 64321	A2	19931228	HU 1992-1294	19911218
HU 213623	B	19970828		
BR 9106704	A	19940322	BR 1991-6704	19911218
RO 109848	B1	19950630	RO 1927-92205	19911218
RO 109848	B1	19950630	RO 1992-527	19911218
PL 169374	B1	19960731	PL 1991-295868	19911218
RU 2091380	C1	19970927	RU 1991-5011967	19911218
PRAI WO 1991-JP1725	A	19911218		

OS MARPAT 120:8609
AB Title compds. I [R = H, alkyl, alkenyl, benzyl, haloalkyl, etc.; R1, R2 = alkyl, alkoxy, halo, haloalkoxy, alkylsulfonyl; X = (un)substituted amino, phenoxy, haloalkyl, alkoxy, etc.; Y = O, S, (un)substituted amino; n = 0, 1] are prepd. E.g., a mixt. of Me 6-(dimethylamino)-3-hydroxypicolinate (prepn. given), 4,6-dimethoxy-2-methylsulfonylpyrimidine, and K2CO3 in DMF was heated at 90.degree. for 2 h to give 66% I [R = Me, R1 = R2 = MeO, X = 6-Me2N, Y = O, n = 0], which at 100 g/ha effect .gtoreq.95% kill against Monochoria vaginalis. Many formulations contg. I are described.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)

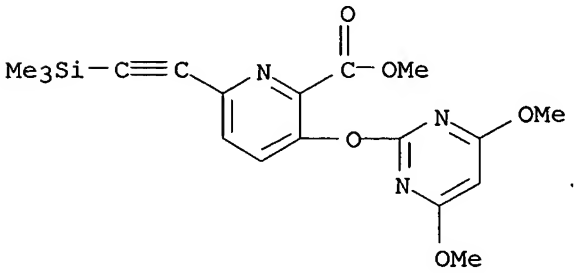
Same as #6



L8 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1993:6984 CAPLUS
DN 118:6984
TI Preparation of (pyrimidinyloxy- and -thio)picolinic acid derivatives as herbicides
IN Takabe, Fumiaki; Saito, Yoshihiro; Tamaru, Masatoshi; Tachikawa, Shigehiko; Hanai, Ryo
PA Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9207846	A1	19920514	WO 1991-JP1459	19911025
W: AU, CA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
CA 2066641	AA	19920426	CA 1991-2066641	19911025
AU 9187473	A1	19920526	AU 1991-87473	19911025
AU 640283	B2	19930819		
EP 507962	A1	19921014	EP 1991-918910	19911025
EP 507962	B1	20010613		
R: DE, FR, GB				
PRAI JP 1990-288180	A	19901025		
WO 1991-JP1459	A	19911025		

OS MARPAT 118:6984
AB The title compds. [I; R = H, alkyl, etc.; R1, R2 = alkyl, alkoxy, etc.; Y = O, S, etc.; X = cyano, PhO, etc.; n = 0, 1] are prepd. A mixt. of picolinate II, sulfone III, and K2CO3 in DMF was heated 2 h at 90.degree. to give 66% I (R = Me, R1 = R2 = MeO, X = 6-Me2N, Y = O, n = 0), which killed >90% barnyard grass, Monochoria vaginalis, and Scirpus juncoides.
IT **143941-12-2P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as herbicide)
RN 143941-12-2 CAPLUS
CN 2-Pyridinecarboxylic acid, 3-[(4,6-dimethoxy-2-pyrimidinyl)oxy]-6-[(trimethylsilyl)ethynyl]-, methyl ester (9CI) (CA INDEX NAME)

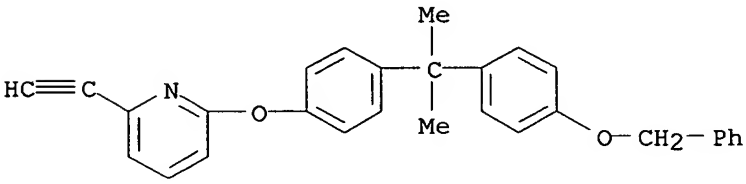


Same as #6.

L8 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1991:656727 CAPLUS
DN 115:256727
TI Thermal polymerization of arylacetylenes: a stepwise activated monomer mechanism
AU Sekiguchi, Hikaru; Kang, Hee Cheol; Tersac, Gilles; Sillion, Bernard
CS Lab. Chim. Macromol., Univ. P. et M. Curie, Paris, 75252, Fr.
SO Makromolekulare Chemie, Macromolecular Symposia (1991), 47(Int. Symp. Mech. Kinet. Polym. React.: Their Use Polym. Synth., 1990), 317-28
CODEN: MCMSES; ISSN: 0258-0322
DT Journal
LA English
AB The kinetics of the thermal polymn. of ATR (acetylene-terminated resin) model compds., bisphenol A monobenzyl mono(ethynylaryl) ethers, was studied by GPC and the resulting oligomers characterized by FTIR, UV, and H1-NMR techniques. The monomer was consumed rapidly at first, and slowly later, giving a mixt. of dimer, low oligomers (d.p. .ltoreq. 6), and higher ones. The concns. of every lower species remained nearly const. throughout the polymn. (except for the first 10 min). To account for these results, a new mechanism involving the activation of monomer and its attack on the end unit of the polymer chain was proposed. This is the first example of an activated-monomer mechanism for noncatalyzed polymn. of unsatd. monomers and, at the same time, the first example of a stepwise activated-monomer mechanism. The structure of the product was discussed on the basis of this mechanism.
IT **137459-84-8P 137459-86-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, kinetics and mechanism of thermal)
RN 137459-84-8 CAPLUS
CN Pyridine, 2-ethynyl-6-[4-[1-methyl-1-[4-(phenylmethoxy)phenyl]ethyl]phenoxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

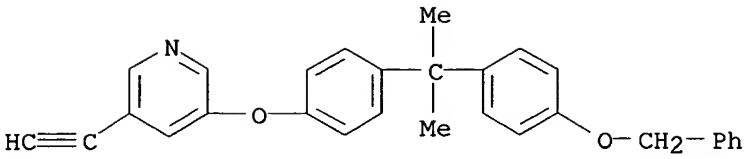
CRN 137459-83-7
CMF C29 H25 N O2



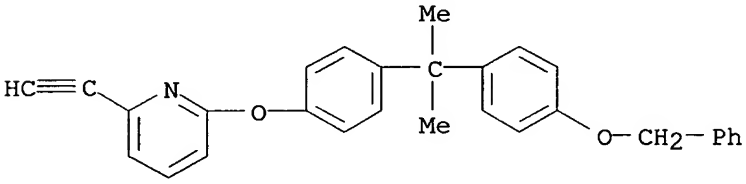
RN 137459-86-0 CAPLUS
CN Pyridine, 3-ethynyl-5-[4-[1-methyl-1-[4-(phenylmethoxy)phenyl]ethyl]phenoxy]-, homopolymer (9CI) (CA INDEX NAME)

CM 1

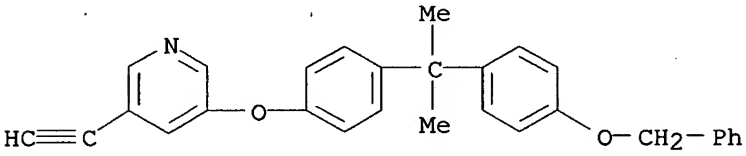
CRN 137459-85-9
CMF C29 H25 N O2



IT **137459-83-7 137459-85-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(thermal polymn. of, kinetics and mechanism of)
RN 137459-83-7 CAPLUS
CN Pyridine, 2-ethynyl-6-[4-[1-methyl-1-[4-(phenylmethoxy)phenyl]ethyl]phenoxy]- (9CI) (CA INDEX NAME)



RN 137459-85-9 CAPLUS
CN Pyridine, 3-ethynyl-5-[4-[1-methyl-1-[4-(phenylmethoxy)phenyl]ethyl]phenoxy]- (9CI) (CA INDEX NAME)



L8 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1990:8077 CAPLUS
DN 112:8077
TI Oligomeric acetylene-terminated pyridine ring-containing polyoxyarylenes, their preparation and conversion to crosslinked resins
IN Senneron, Michel; Tersac, Gilles; Rabilloud, Guy; Sillion, Bernard
PA Centre d'Etude des Materiaux Organiques pour Technologies Avancees, Fr.
SO Fr. Demande, 14 pp. Addn. to Fr. Demande 2,605,010.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 2

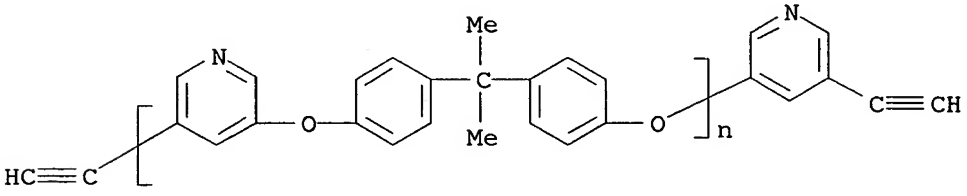
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2621041	A2	19890331	FR 1987-13405	19870925
	FR 2621041	B2	19900112		
	FR 2605010	A1	19880415	FR 1986-14090	19861009
	FR 2605010	B1	19881230		
PRAI	FR 1986-14090		19861009		

AB The oligomers, of structure I (A = divalent arom. bridging group; n = 1-50), are prepd. by condensation of bisphenol alkali metal salts with 3,5-dihalopyridines, followed by treatment with reactive acetylenes, and are cured by thermal polymn. at 100-250.degree. to resins having excellent thermal stability. Thus, II [n = 2.5 (av., detd. by NMR)] was prepd. by condensation of 3,5-dibromopyridine with bisphenol A K salt, condensation of the intermediate with 2-methyl-3-butyn-2-ol in the presence of Pd(PPh3)2Cl2, and heating with NaOH at 111.degree. to eliminate acetone. II was polymd. thermally at 140-305.degree., producing a polymer having glass-transition temp. 120.degree., 1% decompn. in air at 406.degree., and 5% decompn. in air at 434.degree..

IT **124274-87-9P**
RL: PREP (Preparation)
(manuf. of thermally stable)
RN 124274-87-9 CAPLUS
CN Poly[3,5-pyridinediyloxy-1,4-phenylene(1-methylethylidene)-1,4-phenyleneoxy], .alpha.-ethynyl .omega.-(5-ethynyl-3-pyridinyl)-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 124274-86-8
CMF (C20 H17 N O2)n C9 H5 N
CCI PMS



L8 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2002 ACS
AN 1989:115570 CAPLUS
DN 110:115570
TI Preparation and thermal polymerization of oligomeric poly(oxypyridinediyloxyarylenes bearing terminal acetylene groups
IN Dussart-Lermusiaux, Annie; Senneron, Michel; Rabilloud, Guy; Sillion, Bernard
PA Centre d'Etude des Materiaux Organiques pour Technologies Avancees, Fr.
SO Fr. Demande, 26 pp.
CODEN: FRXXBL
DT Patent
LA French
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2605010	A1	19880415	FR 1986-14090	19861009
	FR 2605010	B1	19881230		
	FR 2621041	A2	19890331	FR 1987-13405	19870925
	FR 2621041	B2	19900112		
	EP 267076	A1	19880511	EP 1987-402209	19871006
	R: BE, CH, DE, GB, IT, LI, NL				
	US 4814403	A	19890321	US 1987-105745	19871008
	JP 63117034	A2	19880521	JP 1987-256139	19871009
PRAI	FR 1986-14090		19861009		

AB The title oligomers, useful in composites, adhesives, foams, etc., are prepd. by polymg. bisphenol salts with dihalopyridines and ethynylation of the halogen-terminated products. Heating 0.4 mol 2,6-dibromopyridine with 0.2 mol resorcinol and 41.49 g K2CO3 in N-methylpyrrolidone-PhMe at 130.degree. for 7 h with azeotropic distn. of H2O gave 91% 6,6'-(m-phenylenedioxy)bis(2-bromopyridine), catalytic condensation of which with 2-methyl-3-butyn-1-ol gave 66% bis(3-hydroxy-3-methyl-1-butynyl) deriv., alk. degrdn. of which gave 50% 2,2'-(m-phenylenedioxy)bis(6-ethynylpyridine) (I). Heating I at 180.degree. for 2 h gave a polymer with initial decompn. temp. (TGA) 356 and 379.degree. in air and Ar, resp., and wt. loss after 20 h at 300.degree. 2.7%.

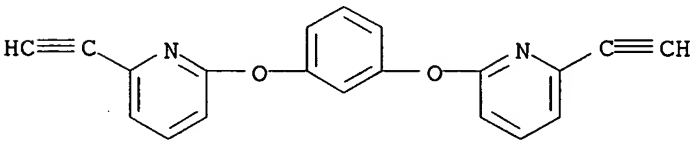
IT **119421-85-1P 119421-86-2P 119421-88-4P**
119421-89-5P
RL: IMF (Industrial manufacture); PREP (Preparation)
(heat-resistant, manuf. of)

RN 119421-85-1 CAPLUS
CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

Previous

CM 1

CRN 119409-37-9
CMF C20 H12 N2 O2

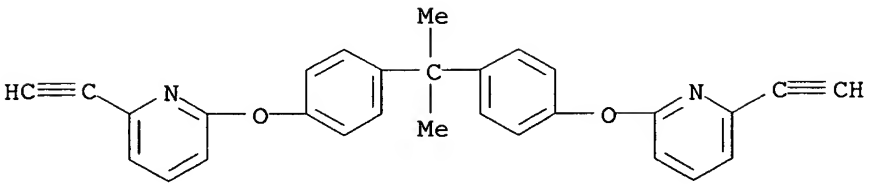


RN 119421-86-2 CAPLUS
CN Pyridine, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[6-ethynyl-,

homopolymer (9CI) (CA INDEX NAME)

CM 1

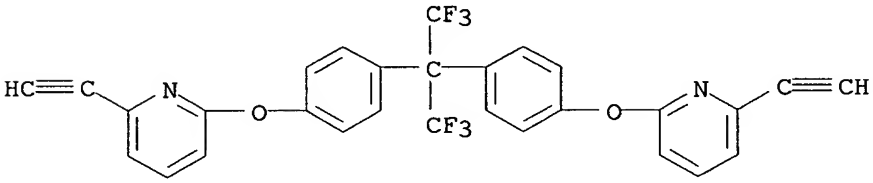
CRN 119409-38-0
CMF C29 H22 N2 O2



RN 119421-88-4 CAPLUS
CN Pyridine, 2,2'-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

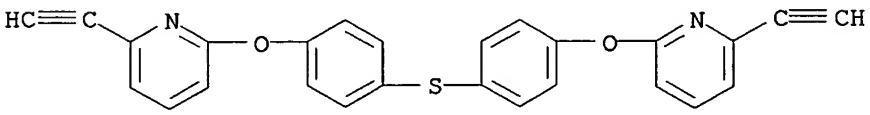
CRN 119421-98-6
CMF C29 H16 F6 N2 O2



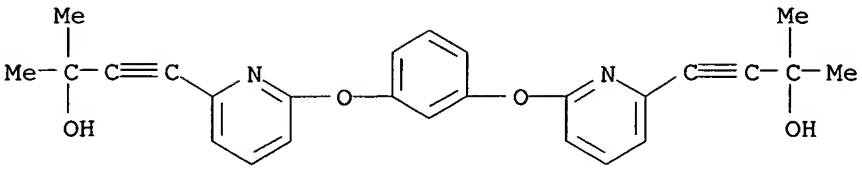
RN 119421-89-5 CAPLUS
CN Pyridine, 2,2'-[thiobis(4,1-phenyleneoxy)]bis[6-ethynyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

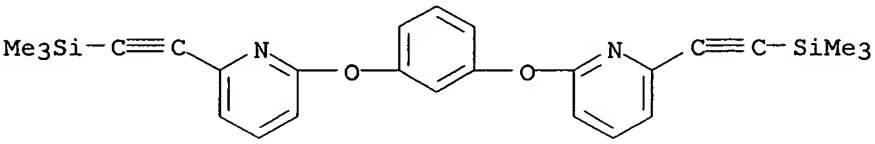
CRN 119409-40-4
CMF C26 H16 N2 O2 S



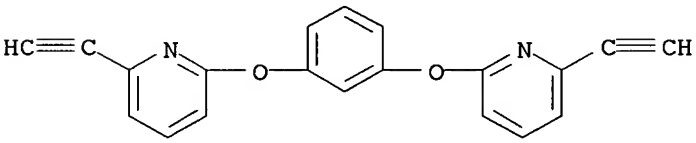
IT **119409-36-8P 119409-39-1P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(manuf. and degrdn. of)
RN 119409-36-8 CAPLUS
CN 3-Butyn-2-ol, 4,4'-[1,3-phenylenebis(oxy-6,2-pyridinediyl)]bis[2-methyl- (9CI) (CA INDEX NAME)



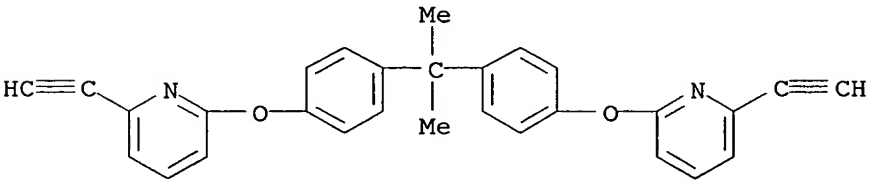
RN 119409-39-1 CAPLUS
CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-[(trimethylsilyl)ethynyl]- (9CI) (CA INDEX NAME)



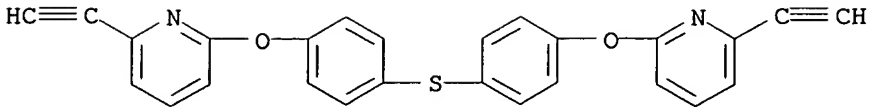
IT **119409-37-9P 119409-38-0P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(manuf. of)
RN 119409-37-9 CAPLUS
CN Pyridine, 2,2'-[1,3-phenylenebis(oxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



RN 119409-38-0 CAPLUS
CN Pyridine, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



IT **119409-40-4P 119421-98-6P**
RL: PREP (Preparation)
(prepn. of)
RN 119409-40-4 CAPLUS
CN Pyridine, 2,2'-[thiobis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)



RN 119421-98-6 CAPLUS
CN Pyridine, 2,2'-[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxy)]bis[6-ethynyl- (9CI) (CA INDEX NAME)